

MAR 11 2004

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

of the following:

<i>Complete If Known</i>	
Application Number	10/637,102
Filing Date	August 8, 2003
First Named Inventor	Sandhu et al.
Group Art Unit	2812
Examiner Name	L. Gurley
Attorney Docket Number	3264.7US (92-0280.10/US)

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner
Signature

Lynne L. Harley

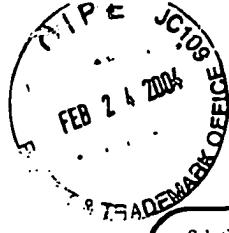
**Date
Considered**

4/23/04

***EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 - 1 of 1

Complete if Known

Application Number 10/637,102

Filing Date **August 8, 2003**

First Named Inventor Sandhu et al

Group Art Unit 281

Examiner Name L. Gurley

Attorney Docket Number 3264.7US (92-0280.10/US)

Examiner Signature		Date Considered	4/23/04
--------------------	-------------------------------------------------------------------------------------	-----------------	---------

***EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION <i>(Use several sheets if necessary)</i>		Docket Number (Optional) 3264.7US (92-0280.10/US)	Application Number Not yet assigned
		Applicant Sandhu et al.	
		Filing Date August 8, 2003	Group Art Unit Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>JH</i>	3,637,320	01/1972	Wakefield et al.			
<i>JH</i>	3,807,008	04/1974	Reedy			
<i>JH</i>	4,035,541	07/1977	Smith et al.			
<i>JH</i>	4,497,874	02/1985	Hale			
<i>JH</i>	4,830,886	05/1989	Co et al.			
<i>JH</i>	4,960,732	10/1990	Dixit et al.			
<i>JH</i>	4,990,997	02/1991	Nishida			
<i>JH</i>	5,001,531	01/1001	Yamaguchi			
<i>JH</i>	5,049,975	09/1991	Ajika et al.			
<i>JH</i>	5,087,593	02/1992	Narula			
<i>JH</i>	5,132,756	01/1992	Matsuda			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation
						YES NO
<i>JH</i>	4-87328	06/1992	Japan			
<i>JH</i>	4-38875	02/1992	Japan			

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages, Etc.)

<i>JH</i>	Wakefield et al., "Preparation of Titanium Carbonitride From Mono-, Di-, and Tri-Methyl Amines"; 4 th International Conference on CVD, Electrochemical Society, 1973, pps. 173-150.
<i>JH</i>	Politis et al., "Preparation, Characterization and Superconducting Properties of TiN and TiCxNy Single Crystals Prepared By CVD"; 7 th International Conference on CVD, Electrochemical Society, 1979, pps. 289-299.
<i>JH</i>	Raaijmakers et al., "Contact Hole Fill with Low Temperature LPCVD TiN", VMIC Conference 6/12-6/13/90, pps. 219-225.

EXAMINER

Yvonne A. Garsley

DATE CONSIDERED

12/12/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance. Include copy of this form with next communication to the applicant.

Form PTO-1449 INFORMATION DISCLOSURE CITATION IN AN APPLICATION (Use several sheets if necessary)				Docket Number (Optional) 3264.7US (92-0280.10/US)		Application Number Not yet assigned	
				Applicant Sandhu et al.			
				Filing Date August 8, 2003		Group Art Unit Unkn wn	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
<i>JH</i>	5,139,825	08/1992	Gordon et al.				
<i>JH</i>	5,178,911	01/1993	Gordon et al.				
<i>JH</i>	5,192,589	03/1993	Sandhu				
<i>JH</i>	5,246,881	09/1993	Sandhu et al.				
<i>JH</i>	5,384,289	01/1995	Westmoreland				
<i>JH</i>	5,496,762	03/1996	Sandhu et al.				
<i>JH</i>	5,536,947	07/1996	Klersy et al.				
<i>JH</i>	5,571,572	11/1996	Sandhu				
<i>JH</i>	5,723,382	03/1998	Sandhu et al.				
<i>JH</i>	5,893,758	04/1999	Sandhu et al.				
<i>JH</i>	6,081,034	06/2000	Sandhu et al.				
<i>JH</i>	6,291,340	09/2001	Sandhu et al.				
FOREIGN PATENT DOCUMENTS							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
EXAMINER 				DATE CONSIDERED <i>12/12/03</i>			
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance. Include copy of this form with next communication to the applicant.							



PTO/SB/08B(10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Shee

of 1

Complete if Known

Application Number 10/637,102

Filing Date August 8, 2003

First Named Inventor - Sandhu

Group A1 Unit Unknown

Attorney Docket Number 3264.71US (92-0280.101US)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner
Signature

James A. Kerley

Date
Considered

12/12/03

***EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.**

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.